

IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

Claims 1-3 (canceled).

4. (previously presented) A mobile communication terminal *for* receiving a spread spectrum signal intermittently, comprising:

a receiver which receives said spread spectrum signal;

a demodulation unit which demodulates said spread spectrum signal received by the receiver;

a first timer started when said receiver changes from a receiving state to a suspension state;

a second timer started when said receiver changes from the suspension state to the receiving state, wherein an accuracy of the second timer is higher than that of the first timer and a chip rate of said spread spectrum signal;

an intermittent receiving controller which controls said receiving state and said suspension state based on the count by the first timer and the second timer; and

a calculator which calculates a timing error which occurred due to the first timer,

wherein said intermittent receiving controller controls said demodulation unit so as to resume demodulation operation so that de-spreading said spread spectrum signal attains synchronization based on the timing error after said receiver changes from said suspension state to the receiving state.

5. (previously presented) A mobile communication terminal for receiving a spread spectrum signal intermittently, comprising:

a receiver which receives said spread spectrum signal;

a demodulation unit which demodulates said spread spectrum signal received by the receiver;

a low accuracy timer which operates when said receiver is in a suspension state;

a high accuracy timer which operates when said receiver is in a receiving state, wherein said accuracy of the high accuracy timer is higher than that of said low accuracy timer and a chip rate of said spread spectrum signal;

a calculator which calculates a timing error which occurred due to the low accuracy timer; and

a controller which controls said demodulation unit so as to resume demodulation operation so that de-spreading said spread spectrum signal attains synchronization based on the timing error after said receiver changes from said suspension state to the receiving state.

6. (previously presented) A mobile communication system comprising:

a base station; and

a plurality of terminal, each for intermittently receiving a spread spectrum signal from said base station,

wherein each terminal comprises:

a receiver which receives said spread spectrum signal,
a demodulation unit which demodulates said spread spectrum signal received by the receiver,
a first timer started when said receiver changes from a receiving state to a suspension state;
a second timer started when said receiver changes from the suspension state to the receiving state, wherein an accuracy of the second timer is higher than that of the first timer and a chip rate of said spread spectrum signal, an intermittent receiving controller which controls said receiving state and said suspension state based on the count by the first timer and the second timer, and
a calculator which calculates a timing error which occurred due to the first timer,
wherein said intermittent receiving controller controls said demodulation unit so as to resume demodulation operation so that de-spreading said spread spectrum signal attains synchronization based on the timing error after said receiver changes from said suspension state to the receiving state.

7. (previously presented) A mobile communication system comprising:

a base station; and
a plurality of terminal each for intermittently for receiving a spread spectrum signal from said base station,
wherein each terminal comprises:
a receiver which receives said spread spectrum signal,

a demodulation unit which demodulates said spread spectrum signal received by the receiver,

a low accuracy timer which operates when said receiver is in a suspension state,

a high accuracy timer which operates when said receiver is in a receiving state, wherein an accuracy of said high accuracy timer is higher than that of said low accuracy timer and a chip rate of said spread spectrum signal, a calculator which calculates a timing error which occurred due to the low accuracy timer, and

a controller which controls said demodulation unit so as to resume demodulation operation so that de-spreading said spread spectrum signal attains synchronization based on the timing error after said receiver changes from said suspension state to the receiving state.

8. (currently amended) A method of receiving a spread spectrum signal intermittently, comprising the steps of:

receiving said spread spectrum signal;

demodulating said spread spectrum signal received by said receiving step;

starting a first timer when said receiving step changes from a receiving state to a suspension state;

starting a second timer when said receiving step changes from the suspension state to the receiving state, wherein an accuracy of the second timer is higher than that of the first timer and a chip rate of said spread spectrum signal;

controlling said receiving state and said suspension state based on the count by the first timer and the second timer; and

calculating a timing error which occurred due to the first timer, wherein said controlling step controls said ~~a~~ demodulation unit so as to resume demodulation operation so that de-spreading said spread spectrum signal attains synchronization based on the timing error after said ~~a~~ receiver changes from said suspension state to the receiving state.

9. (currently amended) A method of receiving a spread spectrum signal intermittently comprising the step of:

receiving said spread spectrum signal;

demodulating said spectrum signal received by said receiving step;

starting a low accuracy timer which operates when said receiving step is in a suspension state;

starting a high accuracy timer which operates when said receiving step is in a receiving state, wherein an accuracy of said high accuracy timer is higher than that of said low accuracy timer and a chip rate of said spread spectrum signal;

calculating a timing error which occurred due to the low accuracy timer; and
controlling said ~~a~~ demodulation unit so as to resume demodulation operation so that de-spreading said spread spectrum signal attains synchronization based on the timing error after said ~~a~~ receiver changes from said suspension state to the receiving.

10. (previously presented) A mobile communication terminal according to claim 4, wherein the chip rate of said spread spectrum signal is 1.2288 Mcps.

11. (previously presented) A mobile communication terminal according to claim 4, wherein the calculator calculates a synchronization error which occurs due to the first timer.

12. (previously presented) A mobile communication terminal according to claim 5, wherein the chip rate of said spread spectrum signal is 1.2288 Mcps.

13. (previously presented) A mobile communication terminal according to claim 5, wherein the calculator calculates a synchronization error which occurs due to the low accuracy timer.

14. (previously presented) A mobile communication terminal according to claim 6, wherein the chip rate of said spread spectrum signal is 1.2288 Mcps.

15. (previously presented) A mobile communication terminal according to claim 6, wherein the calculator calculates a synchronization error which occurs due to the first timer.

16. (previously presented) A mobile communication terminal according to claim 7, wherein the chip rate of said spread spectrum signal is 1.2288 Mcps.

17. (previously presented) A mobile communication terminal according to claim 7, wherein the calculator calculates a synchronization error which occurs due to the low accuracy timer.

18. (previously presented) A mobile communication terminal according to claim 8, wherein the chip rate of said spread spectrum signal is 1.2288 Mcps.

19. (previously presented) A mobile communication terminal according to claim 8, wherein the calculating step calculates a synchronization error which occurs due to the first timer.

20. (previously presented) A mobile communication terminal according to claim 9, wherein the chip rate of said spread spectrum signal is 1.2288 Mcps.

21. (previously presented) A mobile communication terminal according to claim 9, wherein the calculating step calculates a synchronization error which occurs due to the low accuracy timer.